

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

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(Currently Amended) 1. A method of notifying users of electronic services, the method comprises:

dynamically matching ~~custom~~ information on topics of interest stored on distributed databases with information stored that users hold in a user device ~~on topics of interest~~.

(Currently Amended) 2. The method of claim 1 wherein the custom information is stored as capsules of data, each capsule having a wrapping field that includes fields that contain property characteristics of the capsule and a content field that contains actual information to be shared or sent.

(Original) 3. The method of claim 1 wherein matching further comprises:

matching wrapper information from a received capsule, the wrapper information including information that determines the use of the information content of the capsule.

(Currently Amended) 4. The method of claim 2 wherein matching wrapper information further comprises:

matching matches information about the capsule owner, the time span of the capsule, the intended audience for the capsule.

(Currently Amended) 5. The method of claim 2 wherein matching wrapper information includes further comprises:

matching rules that determine which pieces of information are to be matched, what information is to be filled in, and what other actions are to occur if a match occurs.

(Original) 6. The method of claim 2 wherein matching further comprises:  
matching content information contained in the capsule.

(Currently Amended) 7. The method of claim 5 wherein the data capsules ~~can be expressed as~~ are small fragments of information, having properties that allow the capsules to be used to locate and obtain further information.

(Currently Amended) 8. The method of claim 2 ~~wherein a user specifies a request or an offer for information and services by sharing pieces of personalized databases further comprising:~~

controlling the user device to allow the user to specify a request or an offer for information and services; and

sharing information from personalized databases in the device with a server device that accesses the distributed databases.

(Currently Amended) 9. The method of claim 8 ~~wherein information shared in the course of interaction is shielded from parties known and unknown via a privacy process further comprising:~~

using privacy settings in the capsules to shield information shared in the course of interaction from other parties.

(Currently Amended) 10. A client device, comprises:  
a computing device that executes computer instructions;  
a database of personal interests;  
a storage device that stores a computer program product comprising instruction to:

~~a process that either offers and/or requests services and information based on personal interests of a user, said process comprising:~~

~~a process to wrap content with control information designating ownership of the content, the time span the content is valid, and rules specifying how content is to be matched.~~

(Currently Amended) 11. The client device of claim 10 wherein the device enables the user to offer and/or request services and information based on personal interests of the user, said process comprising:

~~a user to interact in both a physical world and an electronic world.~~

(Currently Amended) 12. The client device of claim 10 wherein the process computer program product comprises instructions to:

~~specifies specify~~ a visibility method to receive information.

(Original) 13. The device of claim 10 wherein the user device is a handheld computing device.

(Original) 14. The device of claim 10 wherein the user device is a portable, wireless device.

Claims 15-25 are cancelled

(Currently Amended) 26. A server system, comprises:  
~~a matching process that matches information sent as a capsule with a wrapper from a client with information from other hosts that are also sending information to the server, said the matching process comprising:~~

matching wrapper information from a received capsule, the wrapper information including information that determines the use of the information content of the capsule, with other capsules of information sent to the server.

(Currently Amended) 27. The server of claim 26 wherein the capsules include the wrapper information and content information, and the matching process further comprises:  
a matching process to match the content of the received capsule with the content from other sources of content.

(Original) 28. The server of claim 26 wherein the server offers and requests information, and also services.

Claims 29-55 are cancelled.

\ (New) 56. The device of claim 1 wherein information in databases of personal interests are selectively activated based on physical and electronic conditions of the device.

*A<sup>2</sup> NO* (New) 57. The method of claim 2 further comprising:  
making existence and results of a request or offer known to other devices parties only if matched capsules of the user of the electronic devices and those of the other devices have compatible visibility settings in the capsules.

\ (New) 58. The method of claim 2 wherein the capsules include fields specifying ownership, location, life span, binding and transmittal data.

*(New) 59.* The method of claim 10 wherein the capsules include a directional visibility flag that is attached to a request or offer for information or services.

(New) 60. The system of claim 10 wherein offers or requests can be for information, activity, connection, calculation, or storage.

(New) 61. The method of claim 2 wherein the contents portion is comprised of shareable, matchable and fillable elements.

(New) 62. The method of claim 1 wherein information in shareable databases are selectively activated based on matching information.

(New) 63. A computer program product residing on a computer readable medium for notifying users of electronic services, the product comprising instructions for causing a computing device to:

dynamically match custom information on topics of interest which is stored on distributed databases with information that is stored in a user device.

(New) 64. The computer program product of claim 63 wherein the custom information is stored as capsules of data having a wrapping field that includes fields that contain property characteristics of the capsule and a content field that contains actual information to be shared or sent.

(New) 65. The computer program product of claim 63 wherein instructions to match further comprise instructions to:

match wrapper information from a received capsule, the wrapper information including information that determines the use of the information content of the capsule.

(New) 66. The computer program product of claim 64 wherein instructions to match wrapper information further comprise instructions to:

match information about a capsule owner, a time span of the capsule, and an intended audience for the capsule.

(New) 67. The computer program product of claim 64 wherein instructions to match wrapper information further comprise instructions to:

match rules that determine which pieces of information are to be matched, what information is to be filled in, and what other actions are to occur if a match occurs.

(New) 68. The computer program product of claim 64 wherein instructions to match further comprise instructions to:

match content information contained in the capsule.

(New) 69. The computer program product of claim 68 wherein the data capsules are small fragments of information including a property that the small fragments can be bound to other small fragments to locate and obtain further information or new information.

(New) 70. The computer program product of claim 64 further comprising instructions to:

control a device to allow a user to specify a request or an offer for information and services; and

share information from personalized databases with a server device that accesses the distributed databases.

(New) 71. The computer program product of claim 70 further comprising instructions to:

use privacy settings to shield information shared in the course of interaction from other parties.

(New) 72. The computer program product of claim 63 further comprising instructions to: selectively activate information in databases of personal interests based on physical and electronic conditions.

(New) 73. The computer program product of claim 63 further comprising instructions to: make the existence and results of a request or offer known to parties based on whether capsules of between the parties have matched compatible visibility settings.

(New) 74. The computer program product of claim 63 wherein the capsules have ownership, location, life span, binding and transmittal details.

(New) 75. The computer program product of claim 63 further comprising instructions to: attach a directional visibility flag to a request or offer for information or services.

(New) 76. The computer program product of claim 63 wherein offers or requests can be for information, activity, connection, calculation, or storage.

(New) 77. The computer program product of claim 63 wherein the contents portion is comprised of shareable, matchable and fillable elements.

(New) 78. The computer program product of claim 63 wherein information in shareable databases are selectively activated based on matching information.

(New) 79. The client device of claim 10 wherein the computer program product comprises instructions to:

send the wrapped information to a server device.

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(New) 80. The client device of claim 10 wherein the content and the control information is stored as capsules of data, each capsule having a wrapper field that includes the control information of the capsule and a content field that contains the content information to be sent.

(New) 81. The device of claim 10 wherein the wrapper information includes information that determines the use of the information content of the capsule.

(New) 82. The device of claim 10 wherein the data capsules are small fragments of information, having properties that allow the capsules to be used to locate and obtain further information.

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